always, as they ought to be, proportional to their Cauſes.

After the ſame Manner the ingenious Mr. *'s Graveſande* once argued; for thus he reaſons in Paragraph 355 of *Phyſices Elem. Mathematica*, Firſt Edition.

" *Non tamen eandem cum profunditate proportio-*
" *nem ſequitur Velocitas, licet preſſio, ex quâ Veloci-*
" *tas oritur, in eâdem ratione cum profunditate*
" *creſcat. Quantitas motûs quæ in liquido produci-*
" *tur, eſt effectus totus preſſionis, & hæc quantitas*
" *ad inſtar preſſionis augetur. Ratio autem quanti-*
" *tatis motûs eſt compoſita ex ratione Velocitatis, &*
" *quantitatis materiæ motæ, hìc materia mota eſt a-*
" *qua, quæ ex foramine exit, cujus quantitas, ma-*
" *nente tempore, cum celeritate creſcit; dupla erit,*
" *ſi hæc dupla fuerit, in quo caſu motûs quantitas eſt*
" *quadrupla, id eſt, augetur ut quadratum celerita-*
" *tis, quod poſitâ celeritate quâcunque ſemper obti-*
" *net; creſcit ergo hoc quadratum ut preſſio, id eſt, ut*
" *altitudo liquidi ſuprà foramen ex quo profluit aqua.*

IV. *A Copy of a Letter from Dr.* David Kinneir, Coll. Med. Edingb. Soc. *to Dr.* Campbell, Coll. Med. Lond. Soc. Honorar. *touching the Efficacy of* Camphire *in* Maniacal *Diſorders.*

S I R,

IN Converſation, t'other Day, on the Subject of our Profeſſion, I told you how ſucceſsfully I had us'd Camphire in *Maniac* Diſorders, which hitherto never has

has fail'd my Expectation in the *Mania*, and other Caſes wherein the *Genus Nervoſum* and Blood ſeem to be affected after the ſame Manner, but in a leſs Degree. At your Requeſt, I ſend you the Hiſtory of Four Caſes, with all the Exactneſs my Memory can afford. I own I flatter my ſelf, that from the Effects of this Medicine Phyſicians may be led into a more ſure Way of Reaſoning in *Nervous Diſorders*, and therefore give you Leave to publiſh theſe Hiſtories, if you think they may be of Uſe to the Publick.

I. A *Gentlewoman of Nineteen Years of Age*, from an obſtinate Faſting for Two Days, and Averſion to ſee Company, in a religious Turn before *Eaſter*, fell into a deep Melancholy, would not talk, nor anſwer any Queſtion for ſome Time, but moan'd and ſigh'd continually; ſlept very little for Ten Days. This happen'd in the *Decline* of the Moon. The Night before the *Change* ſhe ſpoke, and call'd for ſome Water to drink, which being given her, ſhe immediately fell a ſtarting and laughing, and her Eyes got a Briskneſs in them ſomewhat uncommon, (as her Relations told me) then began to talk wildly, and continu'd ſo all that Night, She became next Morning very furious; whereupon a Phyſician was call'd, who bled her Four Times a Week the firſt Fourteen Days, vomited her, purg'd her, us'd the *Cold Bath*, and many other Methods common in ſuch Caſes, all to no Purpoſe. In this Condition ſhe continu'd for Nine Months; then I was apply'd to.

I firſt began her with an Antimonial Vomit, which had no other Effect than that of ſetting her faſt aſleep for Twelve Hours. Next Day I gave her half a Dram of *Camphire* in a *Bolus*, and as much at Night. She continu'd to reſt well all that Night, and had a great Moiſtneſs all over

over her Body, and in the Day-time a plentiful Diſcharge by Urine. Thus for Four Days I ply'd her, and afterwards, in the Day-time, I order'd her Pills of *Æthiops, Gum-guaiac. Cinnab. Antim. & pulv. de Gutteta*; and at Night, the Doſe of *Camphire*. Senſible Alterations every Day for the better, and in Three Weeks Time ſhe enjoy'd the full Uſe of her Reaſon, and tho' Nine Years ago, at this Time is in a very good State of Health, having no extraordinary Ailing ever ſince.

II. A *Gentleman* of a good Family, *aged Seventeen Years*, (from ſome Diſappointment) became very ſilly and ſtupid. He continu'd in that Way for a long Time, notwithſtanding he had the beſt Advice. He had a great Inclination to chaw and eat every thing that came in his Way, be it what it would. He reſted pretty well a Nights, and was delighted with the Sight of every glaring Object. He hid every thing he could lay his Hands on, as well in Company as alone, and not any ways ill-natur'd. Thus for Half a Year he continu'd, when he became ſo furious, that Two Men could hardly hold him from beating every Body that came about him. Thus he would continue for Three or Four Days together, without ſleeping; then he would become calmer, after having ſlept ſome Time; but was a little miſchievous. This was the Way from *New Moon* till the *Full*; then he became ſilly and melancholly, ſpeaking little, and looking always down, not caring to look one in the Face. So it was *alternately* for Fourteen Months.

When I came to him, I found him full of Complaints of his ill Treatment; and had not I had a watchful Eye upon him, I had ſuffer'd from a Blow intended at me; but I got him to take the *Medicines* as *before*, and

and with allowing him a more plentiful Diet, and a great Quantity of *Diluting Drinks*, he became perfectly well in Six Weeks, and has enjoy'd a good State of Health and ſound Judgment theſe ſeveral Years, and is now in Buſineſs.

III. A *Mercer's Wife* of *Thirty Six Years of Age*, having born Four Children, and who was naturally of a lively, active Diſpoſition, fell ſo ill, all of a ſudden, One Day at Sermon, that with much ado they could get her out of Church with common Decency. She tore every thing about her, talk'd much, and utter'd horrid Oaths. In Fine, ſhe was as much diſorder'd as you can imagine any one. She had the beſt Advice, 'twas thought, that *Edinburgh* could give her. They fail'd of Succeſs, and left off viſiting her. About Half a Year thereafter I was conſulted about her. I treated her in the *foregoing* Manner, and in Four Days there was a ſenſible Alteration for the better, and in Four more ſhe went abroad. I ſtill continu'd the Uſe of the Medicines for Fourteen Days after Recovery, and now ſhe is as well as ever ſhe was in her Life.

IV. A *young Man, aged Twenty*, of a full Habit, was ſo very bad in the ſullen, deſpairing Way, wounding himſelf with his Teeth and Hands, that there was a Neceſſity of cloſe watching him. I *vomited* him twice, gave him ſome other Things common in ſuch Caſes; then began him with the *Camphire*, which in Ten Days brought him to Reaſon. He relaps'd after that on the *Change* of the Moon, was ill for Three Days, but not ſo as before. He came out of it again, and ſtood the *Change* of the next Moon with only a little Heavineſs, as in the *Hypo*. At the Height of the ſame Moon, the Day before, he was very uneaſy, and ſeem'd

to

to reſemble a Perſon greatly *hypochondriac*. I ſtill continu'd to him the *Camphire*, and the other *alterative Medicines*, for ſome Time, but in a much ſmaller Doſe than what I gave him in his Illneſs: So in Nine Weeks he was perfectly cur'd, and continues in good Health.

This, Sir, is the Subſtance of what I remember of the preceding Caſe, wherein I lay'd the whole Streſs of the Cure on *Camphire*.

I am, &c.

V. *A Method for determining the Geographical Longitude of Places, from the Appearance of the common Meteors, called* Falling Stars, *propoſed by* George Lynn, *Eſq; of* Southwick, Northampton-ſhire, *in a Letter to Dr.* Jurin, R. S. & Coll. Med. Soc.

SIR,

UPon peruſing, lately, the Account which the very ingenious Dr. *Halley* has given in the *Tranſactions*, N°. 360, of that extraordinary Meteor which appear'd all over *England*, 19th of *March*, 171⅝. I obſerve One very great Uſe he ſuggeſts might be made of thoſe momentaneous *Phœnomena*, in determining the Geographical Longitude of Places, if we could but have the leaſt Notice of their appearing, *&c.*

I cannot but think, that ſome other Meteors which are very frequent, tho' little taken Notice of, might ſerve very well for the ſame Purpoſe. I mean thoſe which are vulgarly call'd *Stars ſhooting*, or *falling*, being a Sort of natural *Sky-rockets* diſcharg'd at a very great